

Abstract of the Disclosure

Stable anodes comprising iron oxide useful for the electrolytic production of metal such as aluminum are disclosed. The iron oxide may comprise  $\text{Fe}_3\text{O}_4$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{FeO}$  or a combination thereof. During the electrolytic aluminum production process, the anodes remain stable at a controlled bath temperature of the aluminum production cell and current density through the anodes is controlled. The iron oxide-containing anodes may be used to produce commercial purity aluminum.